



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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In re Application of:

**Levitt et al.**

Serial No.: 09/939,209

Filed: August 24, 2001

Art Unit: 1636

Examiner: C. Qian

Atty. Docket No.: 00-539-US

**METHODS AND SYSTEMS FOR  
FACILITATING THE DIAGNOSIS  
AND TREATMENT OF  
SCHIZOPHRENIA**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT**

Sir:

This Information Disclosure Statement is filed in accordance with 37 C.F.R. §§ 1.56, 1.97 and 1.98. The items listed on the enclosed Form PTO-1449 may be deemed to be pertinent to the above-identified application and are made of record to assist the Patent and Trademark Office in its examination of this application. The Examiner is respectfully requested to fully consider the items and to independently ascertain their teaching.

**CERTIFICATE OF MAILING UNDER 37 C.F.R. § 1.8(a)**

I hereby certify that this paper (along with any referred to as being attached or enclosed) is being

**MAILED**

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☒ deposited with the United States Postal Service on September 19, 2003, with sufficient postage as first-class mail in an envelope addressed to Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450

☐ transmitted by facsimile on [date] to the U.S. Patent and Trademark Office.

For B. Amoroso

*For B. Amoroso*

(Signature of person mailing paper or fee)

Type Signature Name

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1. ☒ Enclosed is PTO Form 1449 (and a duplicate thereof).
2. ☐ Items listed on the enclosed Form PTO-1449 are not in the English language.
- ☐ For each of the following items, an English-language translation of that item or a portion thereof or a concise explanation of the relevance of that item is enclosed:
- ☐ For each of the following items, a concise explanation of that item is incorporated in the specification of the above-identified application:
- ☐ For each of the following items, a corresponding U.S. or other English-language patent is enclosed. Please consider the U.S. or other English-language patents in accordance with the procedure set forth in MPEP § 609:

3. ☐ **Submission in Accordance with 37 CFR § 1.98(d).**

Any copy of the items listed on the enclosed Form PTO-1449 that is not enclosed with this Information Disclosure Statement was previously cited by or submitted to the Patent and Trademark Office in Application Serial No. [Ser. No.], filed [Date], of which the present application relies upon for an earlier filing date under 35 U.S.C. 120.

4. ☒ **Submission in Accordance with 37 CFR § 1.97(b).**

This Information Disclosure Statement is being filed

- ☐ With the application;
- ☐ Within three months of the filing date of a national application;
- ☐ Within three months of the date of entry of the national stage in an international application; or
- ☒ Before the mailing date of a first Office Action on the merits.

and NO FEE is due for consideration of this Information Disclosure Statement.

5. ☐ **Submission in Accordance with 37 CFR 1.97(c).**

This Information Disclosure Statement is being filed before the first mailing date of either

- ☐ A final action under § 1.113; or
- ☐ A notice of allowance under § 1.311.
- ☐ A fee is due for consideration of this Information Disclosure Statement and the fee is paid below; or

- ☐ This Information Disclosure Statement is accompanied by one of the certifications pursuant to 37 CFR § 1.97(e), and NO FEE is due for consideration of this Information Disclosure Statement.

6. ☐ **Submission in Accordance with 37 CFR 1.97(d).**

This Information Disclosure Statement is being filed after the mailing date of either

- ☐ A final action under § 1.113; or  
☐ A notice of allowance under § 1.311.

whichever comes first, but before payment of the issue fee, and is accompanied by

- a. One of the certifications pursuant to 37 CFR § 1.97(e), which is set forth below;  
b. The attached petition requesting consideration of this Information Disclosure Statement; and  
c. The petition fee under 37 CFR § 1.17(i)(1), which is paid below.

7. **Certification Pursuant to 37 CFR 1.97(e).**

- ☐ The undersigned certifies that each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart application not more than three months prior to the filing of this Information Disclosure Statement; or  
☐ The undersigned certifies that no item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, or to my knowledge after making reasonable inquiry, was known to any individual designated in 37 CFR § 1.56(c) more than three months prior to the filing of this Information Disclosure Statement.

8. **Fee Payment Being Made.**


- ☐ Enclosed  
☐ \$180.00 fee for submission under 37 CFR § 1.97(c).  
☐ \$180.00 fee for submission under 37 CFR § 1.97(d).  
☐ A check in the amount of \$[Amount] to cover the fee payment is enclosed.  
☐ Charge the fee to Deposit Account No. 18-0582. A duplicate copy of this communication is attached.  
☒ The Director is hereby authorized to charge payment of any additional fees associated with this Information Disclosure Statement or credit any overpayment

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to Deposit Account No. 18-0582. A duplicate copy of this communication is enclosed.

Respectfully submitted,

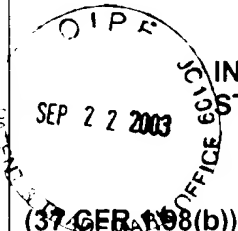
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<b>FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE (MODIFIED) U.S. PATENT AND TRADEMARK OFFICE</b>  	<b>ATTY. DOCKET NO.</b>  00-539-US	<b>SER. NO.</b>  09/939,209 <b>RECEIVED</b> SEP 26 2003
	<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>	
	<b>APPLICANT</b>  LEVITT et al.	<b>FILING DATE</b>  August 24, 2001

### U.S. PATENT DOCUMENTS

Examiner Initial	Cite No.	Patent Number	Issue Date	Patentee	Class/ Subclass	Filing Date

### FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

Examiner Initial	Cite No.	Document Number	Publication Date	Country or Patent Office	Class/ Subclass	Translation Yes/No

### OTHER DOCUMENTS

(Including Author, Title, Date, Relevant Pages, Place of Publication)

Examiner Initial	Cite No.	
	1	LIBIN, B. JIA et al.: "Human bone marrow stromal cells Homo sapiens cDNA clone" retrieved from EMBL, accession no. A1754847 Database accession no. A1754847; DATABASE EBI "Online! EMBL: 29 June 1999
	2	STRAUSBERG, R.: "H. sapiens cDNA clone" retrieved from EMBL, accession no. AA595701 Database accession no. AA595701; DATABASE EBI "Online! EMBL: 24 September 1997
	3	ABOLA, A. P. et al.: "Homo sapiens chromosome 1 clone RP11-288018" retrieved from EMBL, accession no. AC031977 Database accession no. AC031977; DATABASE EBI "Online! EMBL: 5 April 2000
	4	DRUEY, KIRK M et al.: "Inhibition of regulator of G protein signaling function by two mutant RGS4 proteins." PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES, vol. 94, no. 24, 25 November 1997 (1997-11-25), pages 12851-12856, Nov. 25, 1997
	5	SRINIVASA, S P et al.: "Plasma membrane localization is required for RGS4 function in Saccharomyces cerevisiae." PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA, UNITED STATES 12 May 1998, vol. 95, no. 10, 12 May 1998 (1998-05-12), pages 5584-5589

EXAMINER	DATE CONSIDERED

**EXAMINER:** Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<b>FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE (MODIFIED) U.S. PATENT AND TRADEMARK OFFICE</b>  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <b>(37 CFR 1.98(b))</b>	<b>ATTY. DOCKET NO.</b>  00-539-US	<b>SER. NO.</b>  09/939,209
	<b>APPLICANT</b>  LEVITT et al.	
	<b>FILING DATE</b>  August 24, 2001	<b>GROUP</b>  163

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**OTHER DOCUMENTS**

(Including Author, Title, Date, Relevant Pages, Place of Publication)

Examiner Initial	Cite No.	
_____	6	PULVER, A E: "Search for Schizophrenia susceptibility genes" BIOLOGICAL PSYCHIATRY, ELSEVIER SCIENCE, NEW YORK, NY, US, vol. 47, 1 February 2000 (2000-02-01), pages 221-230
_____	7	DE VRIES, L et al.: "The regulator of G protein signaling family." ANNUAL REVIEW OF PHARMACOLOGY AND TOXICOLOGY, UNITED STATES 2000, vol. 40, 2000, pages 235-271
_____	8	HEPLER, JR: "Emerging roles for RGS proteins in cell signalling" TRENDS IN PHARMACOLOGICAL SCIENCES, ELSEVIER TRENDS JOURNAL, CAMBRIDGE, GB, vol. 20, no. 9, 1 September 1999 (1999-09-01), pages 376-382
_____	9	NI YAN G et al.: "Region-specific regulation of RGS4 (regulator of G-protein-signaling protein type 4) in brain by stress and glucocorticoids: In vivo and in vitro studies." JOURNAL OF NEUROSCIENCE, vol. 19, no. 10, 15 May 1999 (1999-05-15), pages 3674-3680

EXAMINER	DATE CONSIDERED

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